S.C. Department of Health and Environmental Control

# Bureau of Air Quality
# Synthetic Minor Construction Permit

**Southern Asphalt - Conway**
**3371 Mt. Pisgah Cemetery Road**
**Conway, South Carolina 29528**
**Horry County**

In accordance with the provisions of the Pollution Control Act, Sections 48-1-50(5), 48-1-100(A), and 48-1-110(a), the 1976 Code of Laws of South Carolina, as amended, and South Carolina Regulation 61-62, Air Pollution Control Regulations and Standards, the Bureau of Air Quality authorizes the construction of this facility and the equipment specified herein in accordance with the plans, specifications, and other information submitted in the construction permit application received on August 28, 2017, as amended. All official correspondence, plans, permit applications, and written statements are an integral part of the permit. Any false information or misrepresentation in the application for a construction permit may be grounds for permit revocation.

The construction and subsequent operation of this facility is subject to and conditioned upon the terms, limitations, standards, and schedules contained herein or as specified by this permit and its accompanying attachments.

**Permit Number:** **9900-0474-CB**
**Issue Date:** **February 2, 2018**

**Steve McCaslin, P. E., Director**
**Air Permitting Division**
**Bureau of Air Quality**

## A. PROJECT DESCRIPTION

Permission is hereby granted to replace existing 225 tons/hr drum mix asphalt plant with a new 350 tons/hr drum mix asphalt plant. The new plant will consist of the following new equipment: drum aggregate dryer equipped with a new baghouse, cold feed bin, RAP bin, hot oil heater, liquid asphalt tank, lime silo, #4 fuel oil tank, two virgin aggregate conveyors, virgin aggregate screen, two RAP conveyors, and RAP screen. The existing two asphalt silos (AS01 and AS02) will remain onsite and will be utilized with the new plant.

## B.1 EQUIPMENT

| Equipment ID | Equipment Description | Control Device ID | Emission Point ID |
|---|---|---|---|
| AD01 | 350 tons/hr Drum Mix Asphalt Plant with 100 million Btu/hr Dryer equipped with Low NOx burner fired on No. 4 Fuel Oil | CD01 | EP01 |
| CFB01 | 350 tons/hr Cold Feed Bin | None | -- |
| RB01 | 175 tons/hr RAP Bin | None | -- |
| HOH01 | 1.8 million Btu/hr Hot Oil Heater fired on Propane | None | EP02 |
| AC01 | 40,000 Gallon Liquid Asphalt Tank | None | -- |
| LS01 | Lime Silo | CD02 | EP01 |
| FT01 | 15,000 Gallon #4 Fuel Oil Tank | None | FT01 |
| AS01 | 200 Tons Asphalt Silo | None | EP03A/EP03B |
| AS02 | 200 Tons Asphalt Silo | None | EP04A/EP04B |
| VAC01 | Virgin Aggregate Conveyor | None | -- |
| VAC02 | Virgin Aggregate Conveyor | None | -- |
| VAS01 | Virgin Aggregate Screen | None | -- |
| RC01 | RAP Conveyor | None | -- |
| RC02 | RAP Conveyor | None | -- |
| RS01 | RAP Screen | None | -- |

## B.2 CONTROL DEVICES

| Control Device ID | Control Device Description | Pollutant(s) Controlled |
|---|---|---|
| CD01 | 62,000 CFM Dryer Baghouse | $PM/PM_{10}/PM_{2.5}$ |
| CD02 | Bin Vent | $PM/PM_{10}/PM_{2.5}$ |

## C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

| Condition Number | Conditions |
|---|---|
| C.1 | **Equipment ID:** All<br>**Control Device ID:** All<br><br>(S.C. Regulation 61-62.1, Section II.J.1.g) A copy of the Department issued construction and/or operating permit must be kept readily available at the facility at all times. The owner or operator shall maintain such operational records; make reports; install, use, and maintain monitoring equipment or methods; sample and analyze emissions or discharges in accordance with prescribed methods at locations, intervals, and procedures as the Department shall prescribe; and provide such other information as the Department reasonably may require. All records required to demonstrate compliance with the limits established under this permit shall be maintained on site for a period of at least 5 years from the date the record was generated and shall be made available to a Department representative upon request. |
| C.2 | **Equipment ID:** DB, LS01<br>**Control Device ID:** CD01, CD02<br><br>The owner/operator shall inspect, calibrate, adjust, and maintain continuous monitoring systems, monitoring devices, and gauges in accordance with manufacturer's specifications or good engineering practices. The owner/operator shall maintain on file all measurements including continuous monitoring system or monitoring device performance measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required in a permanent form suitable for inspection by Department personnel. |
| C.3 | **Equipment ID:** DB, LS01<br>**Control Device ID:** CD01, CD02<br><br>All gauges shall be readily accessible and easily read by operating personnel and Department personnel (i.e. on ground level or easily accessible roof level). Monitoring parameter readings (i.e., pressure drop readings, etc.) and inspection checks shall be maintained in logs (written or electronic), along with any corrective action taken when deviations occur. Each incidence of operation outside the operational ranges, including date and time, cause, and corrective action taken, shall be recorded and kept on site. Exceedance of operational range shall not be considered a violation of an emission limit of this permit, unless the exceedance is also accompanied by other information demonstrating that a violation of an emission limit has taken place. Reports of these incidences shall be submitted semiannually. If no incidences occurred during the reporting period then a letter shall be submitted to indicate such.<br><br>Any alternative method for monitoring control device performance must be preapproved by the Department and shall be incorporated into the permit as set forth in S.C. Regulation 61-62.1 Section II. |
| C.4 | **Equipment ID:** All<br>**Control Device ID:** All |

## C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

<table>
<tr><th>Condition Number</th><th>Conditions</th></tr>
<tr><td></td><td>
A. (S.C. Regulation 61-62.1, Section II.G and Section II.E) Facility-wide emissions are limited to the following:
<table>
<tr><th>Pollutant(s)</th><th>Limit</th></tr>
<tr><td>$PM_{2.5}$, $PM_{10}$, CO, $SO_2$ $NO_x$ VOC</td><td>Less than 100 tpy Each (12 month rolling sum)</td></tr>
<tr><td>Each Individual HAP</td><td>Less than 10 tpy (12 month rolling sum)</td></tr>
<tr><td>Combined HAP (Sum of each individual HAP)</td><td>Less than 25 tpy (12 month rolling sum)</td></tr>
<tr><td>PM, $PM_{2.5}$, $PM_{10}$, CO $SO_2$, $NO_x$, VOC</td><td>Less than 250 tpy Each (12 month rolling sum)</td></tr>
</table>
Bureau approval must be obtained before the facility may increase emissions over these limits.<br><br>
B. Compliance with the above emission limits shall be demonstrated by limiting asphalt production to no more than 1,220,000 tons of Asphalt Concrete per year (12 month rolling sum) and by operating each type of baghouse according to the requirements as specified in this permit.<br><br>
C. The owner/operator shall maintain the following records:<br>
1. Daily production records;<br>
2. Baghouse operation records (i.e. pressure drop records, inspection records etc.); and<br>
3. Emergency generator operation records, if applicable.<br><br>
D. The owner/operator shall submit semiannual reports that include the following:<br>
1. Any baghouse pressure drop exceedances including date and time, magnitude, duration, cause, and corrective actions taken, or a statement that no exceedances occurred.<br>
All twelve month rolling sums for asphalt production.
</td></tr>
<tr><td>C.5</td><td>
Equipment ID: LS01<br>
Control Device ID: CD02<br><br>
A. Each lime silo shall not be loaded without its baghouse or binvent baghouse on-line and operating properly.<br><br>
B. Each lime silo and fly ash silo baghouse shall be visually inspected for leaks and/or visible emissions in the exhaust while each silo is being loaded. If leaks or visible emissions in the exhaust are present, loading of the silo shall immediately cease until corrective action has been taken.
</td></tr>
</table>

## C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

| Condition Number | Conditions |
|---|---|
| | The owner/operator shall record the results of each inspection along with any corrective action taken. The owner/operator shall indicate, in its records, any dates when the source is not in operation. These records shall be maintained on site in written or electronic logs. |
| C.6 | **Equipment ID:** DB<br>**Control Device ID:** CD01<br><br>Each dryer shall not be operated without its dryer baghouse on-line and operating properly.<br><br>The owner/operator shall continue to operate and maintain a pressure drop gauge on the dryer baghouse. The pressure drop shall be recorded daily during dryer operation.<br><br>Operation and maintenance checks shall be made on at least a weekly basis for the dryer baghouse cleaning systems, dust collection hoppers and conveying systems for proper operation.<br><br>Pressure drop readings and operation and maintenance checks shall be maintained in logs (written or electronic), along with any corrective action taken when deviations occur. Each incidence of operation outside the operational pressure drop range, including date and time, cause, and corrective action taken, shall be recorded and kept on site. The owner/operator shall indicate, in its records, any dates when the source is not in operation.<br><br>An operational range for the pressure drop of the dryer baghouse shall be established to provide a reasonable assurance of compliance.<br>1. The operational range for the pressure drop shall be derived by the owner/operator from stack test data, vendor certification, and/or operational history and visual inspections, which demonstrate the proper operation of the equipment in compliance.<br>2. Once established, the owner/operator shall maintain the established operational range for the pressure drop.<br>3. The operational range and supporting documentation (for example certification from manufacturer, stack test results, 30 days of normal readings, and/or opacity readings, etc.) shall be submitted to the Director of Engineering Services no later than 180 days from the date coverage is granted under this permit.<br><br>All dryer baghouse gauges required to be installed shall be readily accessible and easily read by operating personnel and Department personnel (i.e. on ground level or easily accessible roof level).<br><br>An exceedance of the operational pressure drop range shall not be considered a violation of an emission limit of this permit, unless the exceedance is also accompanied by other information demonstrating that a violation of an emission limit has taken place. Reports of these exceedance incidences shall be submitted semiannually. If no incidences occurred during the reporting period then a statement indicating such shall be included in the semiannual report as stated in condition C.4(D)(1). |

## C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

| Condition Number | Conditions |
|---|---|
| | Any alternative method for monitoring the dryer baghouse performance must be preapproved by the Bureau and shall be incorporated into the permit as set forth in S.C. Regulation 61-62.1 Section II. |
| C.7 | **Equipment ID:** All<br>**Control Device ID:** All<br><br>(S.C. Regulation 61-62.5 Standard No.4, Section X.A) All non-enclosed operations shall be conducted in such a manner that a minimum of particulate matter becomes airborne. In no case shall established ambient air quality standards be exceeded at or beyond the property line.<br><br>Compliance with the requirement above shall be demonstrated by developing a facility-wide fugitive dust control plan (BMP Plan) for controlling fugitive emissions from process operations, truck traffic on roadways owned or controlled by the owner/operator and any other on site operations where fugitive dust emissions can be generated. The plan shall be developed no later than 90 days from the date coverage is granted under this permit, kept on-site and made available to Department personnel upon request. The plan shall contain at a minimum the following requirements as specified in 1 through 15 below. The owner/operator shall implement all of the minimum requirements of the plan listed in this condition immediately upon permit issuance except for item 8 below. The owner/operator may also modify the plan as needed, maintain a record of revisions on site and make the plan available to Department personnel upon request.<br><br>1. (S.C. Regulation 61-62.5 Standard No.4, Section X.B and S.C. Regulation 61-62.6, Section III.d) The owner/operator shall maintain dust control of the premises and any roadway it owns or controls by paving, or other suitable measures. Oil treatment is prohibited and volatile organic compounds shall not be used for dust control purposes.<br>2. The owner/operator shall perform daily visual inspections during normal plant operation of equipment loading/unloading areas, any mixing areas and any air pollution control equipment. Visual inspection means a qualitative observation of opacity during daylight. The observer does not need to be certified to conduct valid visual inspections. However, at a minimum, the observer should be experienced and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, and observer position relative to lighting, wind, and the presence of uncombined water. Daily inspections must be documented by a written or electronic record which includes the date and time performed, noting color, duration, density (heavy or light), cause and corrective action taken for any abnormal emissions, the inspector's name or initials and the operating conditions of the equipment.<br>3. If dust suppressant aids are used then they shall be applied according to the manufacturer specifications for quantity and frequency.<br>4. Spillage and residual materials that have the potential for creating emissions problems shall be removed at an appropriate frequency to minimize levels of fugitive dust emissions. |

## C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

<table>
<tr><th>Condition Number</th><th>Conditions</th></tr>
<tr><td></td><td>5. Haul road speed limits shall be imposed where necessary.<br>6. The asphalt plant shall be configured to minimize front-end loader and truck travel distances.<br>7. If applicable, water trucks shall be operated at an appropriate frequency to minimize levels of fugitive dust emissions. The owner/operator may adjust the water truck operation as necessary to accommodate weather conditions.<br>8. If applicable, written guidelines for water trucks shall be developed for water truck operators on how to handle water truck failures including a back-up scenario for when it fails or is inadequate.<br>9. If applicable, weekly inspections of all water trucks in use to control fugitive dust emissions shall be made and proper maintenance performed if needed on the vehicle. Vehicle inspections shall be recorded and include all problems, corrective actions and maintenance activities.<br>10. Engineering design, inherent moisture content in the aggregate and/or asphalt coating on recycled asphalt shall be used to control fugitive emissions at the following points: delumpers, screening operations, conveying systems and material handling systems up to the storage bins, including aggregate piles. Wet suppression shall be used to augment the inherent moisture as needed for operations up to the storage bins and including aggregate piles. Owner/operators shall be trained to handle process upsets and to maintain general housekeeping practices as necessary to minimize fugitive emissions.<br>11. Free fall transfer drop points shall be minimized where necessary.<br>12. The owner/operator shall notify vendors and suppliers in writing that all vendors must cover their material with a tarp when delivering materials to the facility.<br>13. The owner/operator shall document and review plant operations and make any changes as necessary regarding plant-wide fugitive emissions.<br>14. The owner/operator shall conduct annual training for current and new employees on dust control operation procedures to include reviewing all physical controls and maintenance schedules.<br>In the event of a dust control equipment failure, the owner/operator shall repair or replace dust control equipment with readily available parts.</td></tr>
<tr><td>C.8</td><td>Equipment ID: All<br>Control Device ID: All<br><br>(S.C. Regulation 61-62.5, Standard No.4, Section VI) Particulate matter and opacity emissions from asphalt manufacturing shall be limited to the following:<br><br>
<table>
<tr><th>Production Rate (tph)</th><th>Maximum Allowable PM Emission Rate (lb/hr)</th></tr>
<tr><td>20</td><td>22</td></tr>
<tr><td>50</td><td>31</td></tr>
<tr><td>100</td><td>38</td></tr>
<tr><td>150</td><td>45</td></tr>
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## C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

<table>
<tr><th>Condition Number</th><th>Conditions</th></tr>
<tr><td></td><td>
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<tr><td>200</td><td>51</td></tr>
<tr><td>250</td><td>56</td></tr>
<tr><td>300</td><td>61</td></tr>
<tr><td>Greater than 350</td><td>65</td></tr>
</table>
<br>The maximum allowable PM emission rate for facilities with production rates between two points listed in the table above shall be determined through interpolation. The particulate matter emission rate limit determined above shall apply to entire facility as a whole. All particulate matter emissions from the facility must be below this limit.<br><br>The opacity limit is 20% for all production rates.<br><br>Compliance with the above emission limits shall be demonstrated as follows:<br>1. By operating the dryer baghouse as specified in this permit.<br>2. (S.C. Regulation 61-62.5, Standard No.4 Section XII) By performing a scheduled periodic test for particulate matter emissions every two years and conducting the test in accordance with S.C. Regulation 61-62.1, Section IV.<br>3. During the periodic test, the owner/operator is required to produce a South Carolina Department of Transportation (SCDOT) specification surface mix. The Department may, at its discretion, waive this requirement if sufficient evidence indicates that less than 25% of the plant's total annual production is surface mix.<br>4. The periodic test shall be conducted while the plant is operating at its maximum production rate. Plants testing at less than maximum rated production may have their production rate limited as determined by "Asphalt Plant Aggregate Moisture vs. Hot Mix Asphalt Production Potential Guidance" of March 15, 2001, as amended. Retests shall be required in order to exceed a limit established by the last periodic test. Retests may also be required if facilities exceed their maximum allowable production rate.<br>5. The periodic test shall be conducted on a virgin aggregate mix or Reclaimed Asphalt Pavement (RAP) up to the maximum percent of aged binder allowable per SCDOT's RAP Specification.<br>The percent (%) moisture of the aggregate shall be obtained for each test series.</td></tr>
<tr><td>C.9</td><td>Equipment ID: All<br>Control Device ID: All<br><br>For any source test required under an applicable standard or permit condition, the owner, operator, or representative shall comply with S.C. Regulation 61-62.1, Section IV - Source Tests.<br><br>Unless approved otherwise by the Department, the owner, operator, or representative shall ensure that source tests are conducted while the source is operating at the maximum expected production rate or other production rate or operating parameter which would result in the highest emissions for the pollutants being tested. Some sources may have to spike fuels or raw materials to avoid being</td></tr>
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## C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

<table>
<tr><th>Condition Number</th><th>Conditions</th></tr>
<tr><td></td><td>subjected to a more restrictive feed or process rate. Any source test performed at a production rate less than the rated capacity may result in permit limits on emission rates, including limits on production if necessary.<br><br>The owner or operator shall comply with any limits that result from conducting a source test at less than rated capacity. A copy of the most recent Department issued source test summary letter, whether it imposes a limit or not, shall be maintained with the operating permit, for each source that is required to conduct a source test.<br><br>Site-specific test plans and amendments, notifications, and source test reports shall be submitted to the Manager of the Source Evaluation Section, Bureau of Air Quality.</td></tr>
<tr><td>C.10</td><td>Equipment ID: HOH01<br>Control Device ID: None<br><br>(S.C. Regulation 61-62.5, Standard No.1) Each auxiliary heater (including hot oil heaters) are subject to the following limitations:<br><br>
<table>
<tr><th>Heater Construction Date</th><th>Opacity Limit</th><th>PM Limit (lb/million Btu Heat Input)</th><th>$SO_2$ Limit (lb/million Btu Heat Input)</th></tr>
<tr><td>On or after February 11, 1971</td><td>20%</td><td>0.6</td><td>2.3</td></tr>
</table>
<br>Compliance with the limit above shall be demonstrated as follows:<br>1. To the extent practicable, by maintaining and operating the heater in a manner consistent with good air pollution control practices for minimizing emissions.<br>2. Except for natural gas and propane fired units, by maintaining a log of the time, magnitude, duration and any other pertinent information to determine periods of startup and shutdown of the heater and make these records available to a Department representative upon request.</td></tr>
<tr><td>C.11</td><td>Equipment ID: All<br>Control Device ID: All<br><br>Each hot mix asphalt facility that commences construction or modification after June 11, 1973, is subject to New Source Performance Standards (NSPS), 40CFR60 Subpart A, General Conditions and Subpart I, Standards of Performance For Asphalt Concrete Plants, and S.C. Regulation 61-62.60 Subparts A and Subpart I, Standards of Performance For Asphalt Concrete Plants, as applicable. These sources shall comply with all applicable requirements of Subparts A and I.<br><br>(40CFR60.92.a) On and after the date on which the performance test required to be conducted by 40CFR60.8 is completed, Each hot mix Asphalt Facility shall meet the limits specified in the following</td></tr>
</table>

## C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

<table>
<tr><th>Condition Number</th><th>Conditions</th></tr>
<tr><td></td><td>table:<br><br><table><tr><th>Opacity Limit</th><th>PM Limit</th></tr><tr><td>20%</td><td>90 mg/dscm (0.04 gr/dscf)</td></tr></table><br>Compliance shall be demonstrated by operating the dryer baghouse as specified in this permit.<br><br>(40CFR60.93) In conducting the performance tests required in 40CFR60.8, the owner or operator shall use as reference methods and procedures the test methods in Appendix A of this part or other methods and procedures as specified in this section, except as provided in 40CFR60.8(b).<br><br>The owner or operator shall determine compliance with the particulate matter standards in 40CFR60.92 as follows:<br>1. Method 5 shall be used to determine the particulate matter concentration. The sampling time and sample volume for each run shall be at least 60 minutes and 0.90 dscm (31.8 dscf).<br>Method 9 and the procedures in 40CFR60.11 shall be used to determine opacity.</td></tr>
<tr><td>C.12</td><td>Equipment ID: All<br>Control Device ID: All<br><br>Each affected source is subject to New Source Performance Standards (NSPS), 40CFR60 Subpart A, General Conditions and Subpart OOO, Standards of Performance For Nonmetallic Mineral Processing Plants, and S.C. Regulation 61-62.60 Subparts A and Subpart OOO, Nonmetallic Mineral Processing Plants, as applicable. These sources shall comply with all applicable requirements of Subparts A and OOO.<br><br>(40CFR60 Subpart OOO) Each RAP crusher, screen, and conveyor listed in the Table below shall meet the opacity limit specified for it:<br><br>(40CFR60.671) Crusher means a machine used to crush any nonmetallic minerals, and includes, but is not limited to, the following types: Jaw, gyratory, cone, roll, rod mill, hammermill, and impactor.<br><br>(40CFR60.671) Screening operation means a device for separating material according to size by passing undersize material through one or more mesh surfaces (screens) in series, and retaining oversize material on the mesh surfaces (screens). Grizzly feeders associated with truck dumping and static (non-moving) grizzlies used anywhere in the nonmetallic mineral processing plant are not considered to be screening operations.<br><br>(40CFR60.671) Conveying system means a device for transporting materials from one piece of equipment or location to another location within a plant. Conveying systems include but are not</td></tr>
</table>

**C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS**

<table>
<tr><th>Condition Number</th><th>Conditions</th></tr>
<tr><td></td><td>limited to the following: feeders, belt conveyors, bucket elevators and pneumatic systems.
<table>
<tr><th>Crusher Manufacture Date</th><th>Crusher Opacity Limit</th><th>Screen Opacity Limit</th><th>Conveyor Opacity Limit</th></tr>
<tr><td>After August 31, 1983 but before April 22, 2008</td><td>15%</td><td>10%</td><td>10% from each transfer point</td></tr>
<tr><td>After April 22, 2008</td><td>12%</td><td>7%</td><td>7% from each transfer point</td></tr>
</table>
RAP fractionating equipment (lumpbreakers and associated screen conveying system) that do not resize any aggregate or nonmetallic mineral embedded in the RAP is not subject to this regulation.<br><br>
Compliance with the above emission limits shall be demonstrated as follows:<br>
1. (40CFR60.8) By conducting a one time performance test for opacity within 60 days after achieving the maximum production rate at which RAP crusher, screen, and conveyor will be operated, but not later than 180 days after initial startup of the RAP crusher, screen, and conveyor. The test shall be conducted according to the requirements of 40CFR60.11, 40CFR60.675 (Table 3 of 40CFR60 Subpart OOO) and S.C. Regulation 61-62.1 Section IV.<br>
2. By performing daily visual emission checks on the RAP crusher, screen, and conveyor when in operation.<br>
3. By the proper operation of the air pollution control device if the RAP crusher, screen, and conveyor is equipped with one.<br><br>
RAP replacement equipment shall comply with the requirements of 40CFR60.672.d and S.C. Regulation 61-62 .1 Section II.A.1.b.</td></tr>
<tr><td>C.13</td><td>Equipment ID: Db, HOH01<br>Control Device ID: CD01<br><br>All fuel fired sources at the facility are limited to using No. 2 Fuel Oil as fuel. The use of any other substances as fuel is prohibited without prior written approval from the Department.</td></tr>
<tr><td>C.14</td><td>Equipment ID: All<br>Control Device ID: All<br><br>The use of materials, other than virgin aggregate or reclaimed asphalt pavement, as aggregate shall not be allowed without prior written approval from the Department.</td></tr>
<tr><td>C.15</td><td>Equipment ID: All<br>Control Device ID: All<br><br>The production of asphalt concrete other than hot mix asphalt (e.g. other DOT approved methods,</td></tr>
</table>

## C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

| Condition Number | Conditions |
|---|---|
| | warm mix asphalt), is allowed without prior approval from the Department. |
| C.16 | **Equipment ID:** Db, LS01<br>**Control Device ID:** CD01, CD02<br><br>(40CFR60.11.d) At all times, including periods of startup, shutdown, and malfunction, the owner/operator shall, to the extent practicable, maintain and operate the equipment including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Department which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. |
| C.17 | **Equipment ID:** All<br>**Control Device ID:** All<br><br>(S.C. Regulation 61-62.5, Standard No. 4, Section IX) Where construction or modification began after December 31, 1985, emissions from all sources (including fugitive emissions) where an opacity limit is not specified, each source shall not exhibit an opacity greater than 20%. Compliance with the emission limits shall be demonstrated by complying with the Fugitive Dust Control Plan. |
| C.18 | **Equipment ID:** DB<br>**Control Device ID:** CD01<br><br>(S. C. Regulation 61-62.5, Standard No. 5.2) Any existing source where a burner assembly is replaced with another burner assembly after June 25, 2004, regardless of size or age of the burner assembly to be replaced shall be replaced with a low $NO_X$ burner assembly or equivalent technology, and shall achieve a 30 percent reduction from uncontrolled $NO_X$ emission levels based upon manufacturer's specifications. An exemption from this requirement shall be granted when a single burner assembly is being replaced in an existing source with multiple burners due to non-routine maintenance. The replacement of individual components such as burner heads, nozzles, or windboxes does not trigger this requirement.<br><br>The owner or operator shall notify and register the burner assembly replacement with the Department, in writing, within 7 days of replacing the existing burner assembly. Notification will be provided on the Department's *Low $NO_x$ Burner Assembly Replacement Notification* Form D-2935. Those affected sources that wish to receive an emission reduction credit for the control device will be required to submit a construction permit application. Those affected sources requesting an alternative control methodology must receive written approval prior to burner replacement.<br><br>The owner or operator shall perform tune-ups every twenty-four (24) months in accordance with manufacturer's specifications or with good engineering practices. The first tune-up shall be conducted no more than twenty-four (24) months from replacement of a burner assembly for affected existing sources. Each subsequent tune-up shall be conducted no more than twenty-four |

## C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

| Condition Number | Conditions |
|---|---|
| | (24) months after the previous tune-up.<br><br>All tune-up records are required to be maintained on site and available for inspection by the Department for a period of five (5) years from the date generated.<br><br>The owner or operator shall develop and retain a tune-up plan on file. |

## D. NESHAP PERIODIC REPORTING SCHEDULE SUMMARY - RESERVED

## E. NESHAP – CONDITIONS - RESERVED

## F. AMBIENT AIR STANDARDS REQUIREMENTS

| Condition Number | Conditions |
|---|---|
| F.1 | Air dispersion modeling (or other method) has demonstrated that this facility's operation will not interfere with the attainment and maintenance of any state or federal ambient air standard. Any changes in the parameters used in this demonstration may require a review by the facility to determine continuing compliance with these standards. These potential changes include any decrease in stack height, decrease in stack velocity, increase in stack diameter, decrease in stack exit temperature, increase in building height or building additions, increase in emission rates, decrease in distance between stack and property line, changes in vertical stack orientation, and installation of a rain cap that impedes vertical flow. Parameters that are not required in the determination will not invalidate the demonstration if they are modified. The emission rates used in the determination are listed in Attachment - Emission Rates for Ambient Air Standards of this permit. Higher emission rates may be administratively incorporated into Attachment - Emission Rates for Ambient Air Standards of this permit provided a demonstration using these higher emission rates shows the attainment and maintenance of any state or federal ambient air quality standard or with any other applicable requirement. Variations from the input parameters in the demonstration shall not constitute a violation unless the maximum allowable ambient concentrations identified in the standard are exceeded.<br><br>The owner/operator shall maintain this facility at or below the emission rates as listed in Attachment - Emission Rates for Ambient Air Standards, not to exceed the pollutant limitations of this permit. Should the facility wish to increase the emission rates listed in Attachment - Emission Rates for |

## F. AMBIENT AIR STANDARDS REQUIREMENTS

| Condition Number | Conditions |
|---|---|
| | Ambient Air Standards, not to exceed the pollutant limitations in the body of this permit, it may do so by the administrative process specified above. This is a State Only enforceable requirement. |

## G. PERIODIC REPORTING SCHEDULE

| Compliance Monitoring Report Submittal Frequency | Reporting Period (Begins on the startup date of the source) | Report Due Date |
|---|---|---|
| Quarterly | January-March<br>April-June<br>July-September<br>October-December | April 30<br>July 30<br>October 30<br>January 30 |
| Semiannual | January-June<br>April-September<br>July-December<br>October-March | July 30<br>October 30<br>January 30<br>April 30 |
| Annual | January-December<br>April-March<br>July-June<br>October-September | January 30<br>April 30<br>July 30<br>October 30 |
| Note: This reporting schedule does not supersede any federal reporting requirements including but not limited to 40 CFR Part 60, 40 CFR Part 61, and 40 CFR Part 63. All federal reports must meet the reporting time frames specified in the federal standard unless the Department or EPA approves a change. | | |

## H. REPORTING CONDITIONS

| Condition Number | Conditions |
|---|---|
| H.1 | Reporting required in this permit, shall be submitted in a timely manner as directed in the Periodic Reporting Schedule of this permit. |
| H.2 | All reports and notifications required under this permit shall be submitted to the person indicated in the specific condition at the following address:<br>**2600 Bull Street**<br>**Columbia, SC 29201**<br>The contact information for the local Environmental Affairs Regional office can be found at:<br>**http://www.scdhec.gov** |
| H.3 | The owner/operator shall submit written notification to the Director of Air Permitting of the date construction is commenced, postmarked within 30 days after such date. |
| H.4 | Unless elsewhere specified within this permit, all reports required under this permit shall be |

## H. REPORTING CONDITIONS

| Condition Number | Conditions |
|---|---|
| | submitted to the Manager of the Technical Management Section, Bureau of Air Quality. |
| H.5 | (S.C. Regulation 61-62.1, Section II.J) For sources not required to have continuous emissions monitors, any malfunction of air pollution control equipment or system, process upset or other equipment failure which results in discharges of air contaminants lasting for one hour or more and which are greater than those discharges described for normal operation in the permit application shall be reported to the Department's local Environmental Affairs Regional office within 24 hours after the beginning of the occurrence.<br><br>The owner/operator shall also submit a written report within 30 days of the occurrence. This report shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality and shall include, at a minimum, the following:<br>1. The identity of the stack and/or emission point where the excess emissions occurred;<br>2. The magnitude of excess emissions expressed in the units of the applicable emission limitation and the operating data and calculations used in determining the excess emissions;<br>3. The time and duration of excess emissions;<br>4. The identity of the equipment causing the excess emissions;<br>5. The nature and cause of such excess emissions;<br>6. The steps taken to remedy the malfunction and the steps taken or planned to prevent the recurrence of such malfunction;<br>7. The steps taken to limit the excess emissions; and,<br>8. Documentation that the air pollution control equipment, process equipment, or processes were at all times maintained and operated, to the maximum extent practicable, in a manner consistent with good practice for minimizing emissions. |

## I. PERMIT EXPIRATION AND EXTENSION

| Condition Number | Conditions |
|---|---|
| I.1 | (S.C. Regulation 61-62.1, Section II.A.4) Approval to construct shall become invalid if construction:<br>a. is not commenced within 18 months after receipt of such approval;<br>b. is discontinued for a period of 18 months or more; or<br>c. is not completed within a reasonable time as deemed by the Department.<br>The Department may extend the construction permit for an additional 18-month period upon a satisfactory showing that an extension is justified. This request must be made prior to the permit expiration. |
| I.2 | This provision does not apply to the time period between construction of the approved phases of a phased construction project; each phase must commence construction within 18 months of the projected and approved commencement date. |

## J. PERMIT TO OPERATE

| Condition Number | Conditions |
|---|---|
| J.1 | (S.C. Regulation 61-62.1 Section II.F.2) The owner/operator or professional engineer in charge of the project shall certify that, to the best of his/her knowledge and belief and as a result of periodic observation during construction, the construction under application has been completed in accordance with the specifications agreed upon in the construction permit issued by the Department. |
| J.2 | If construction is certified as provided in S.C. Regulation 61-62.1 Section II.F.2, the owner or operator, may operate the source in compliance with the terms and conditions of the construction permit until the operating permit is issued by the Department. |
| J.3 | If construction is not built as specified in the permit application and associated construction permit(s), the owner/operator must submit to the Department a complete description of modifications that are at variance with the documentation of the construction permitting determination prior to commencing operation.<br><br>Construction variances that would trigger additional requirements that have not been addressed prior to start of operation shall be considered construction without a permit. |
| J.4 | (S.C. Regulation 61-62.1, Section II.F.3) The owner or operator shall submit a written request to the Director of Air Permitting for a new or revised operating permit to cover any new or altered source postmarked within 15 days after the actual date of initial startup of each new or altered source.<br><br>The written request for a new or revised operating permit must include, as a minimum, the following information:<br>i. A list of sources that were placed into operation.<br>ii. The actual date of initial startup of each new or altered source. |

## K. GENERAL CONDITIONS

| Condition Number | Conditions |
|---|---|
| K.1 | The permittee shall pay permit fees to the Department in accordance with the requirements of S.C. Regulation 61-30, Environmental Protection Fees. |
| K.2 | In the event of an emergency, as defined in S.C. Regulation 61-62.1, Section II.L, the owner or operator may document an emergency situation through properly signed, contemporaneous operating logs, and other relevant evidence that verify:<br>1. An emergency occurred, and the owner or operator can identify the cause(s) of the emergency;<br>2. The permitted source was at the time the emergency occurred being properly operated;<br>3. During the period of the emergency, the owner or operator took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and<br>4. The owner or operator gave a verbal notification of the emergency to the Department within 24 hours of the time when emission limitations were exceeded, followed by a written report |

## K. GENERAL CONDITIONS

| Condition Number | Conditions |
|---|---|
| | within 30 days. The written report shall include, at a minimum, the information required by S.C. Regulation 61-62.1, Section II.J.1.c.i through viii. The written report shall contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.<br>This provision is in addition to any emergency or upset provision contained in any applicable requirement. |
| K.3 | (S.C. Regulation 61-62.1, Section II.O) Upon presentation of credentials and other documents as may be required by law, the owner or operator shall allow the Department or an authorized representative to perform the following:<br>1. Enter the facility where emissions-related activity is conducted, or where records must be kept under the conditions of the permit.<br>2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit.<br>3. Inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.<br>4. As authorized by the Federal Clean Air Act and/or the S.C. Pollution Control Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. |

## L. EMISSIONS INVENTORY REPORTS - RESERVED

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The emission rates listed herein are not considered enforceable limitations but are used to evaluate ambient air quality impact. Until the Department makes a determination that a facility is causing or contributing to an exceedance of a state or federal ambient air quality standard, increases to these emission rates are not in themselves considered violations of these ambient air quality standards (see Ambient Air Standards Requirements).

| AMBIENT AIR QUALITY STANDARDS – STANDARD NO. 2 | | | | | | |
|---|---|---|---|---|---|---|
| Emission Point ID | Emission Rates (lbs/hr) | | | | | |
| | $PM_{10}$ | $PM_{2.5}$ | $SO_2$ | $NO_X$ | CO | Lead |
| EP01/AD01 | 8.05 | 1.015 | 20.30 | 19.25 | 45.5 | 0.0053 |
| Aggregate | 1.044 | 0.088 | -- | -- | -- | -- |
| EP01/LS01 | 0.550 | 0.550 | -- | -- | -- | -- |
| EP02 | 0.0138 | 0.0138 | 0.00002 | 0.2557 | 0.1475 | -- |
| EP03A | 0.103 | 0.103 | -- | -- | 0.194 | -- |
| EP03B | 0.091 | 0.091 | -- | -- | 0.236 | -- |
| EP04A | 0.103 | 0.103 | -- | -- | 0.194 | -- |
| EP04B | 0.091 | 0.091 | -- | -- | 0.236 | -- |

| TOXIC AIR POLLUTANTS – STANDARD NO. 8 | | | | | | |
|---|---|---|---|---|---|---|
| Emission Point ID | Emission Rates (lbs/hr) | | | | | |
| | Acrolein | Benzene | Cadmium | Formaldehyde | Mercury | Nickel |
| | 107-02-8 | 71-43-2 | 744-043-9 | 50-00-0 | 7439-97-6 | 7440-02-0 |
| EP01 | 0.0091 | 0.137 | 0.0001 | 1.085 | 0.001 | 0.022 |
| EP03A | -- | 0.0007 | -- | 0.0147 | -- | -- |
| EP03B | -- | 0.0004 | -- | 0.0006 | -- | -- |
| EP04A | -- | 0.0007 | -- | 0.0147 | -- | -- |
| EP04B | -- | 0.0004 | -- | 0.0006 | -- | -- |

| TOXIC AIR POLLUTANTS – STANDARD NO. 8 | | | |
|---|---|---|---|
| Emission Point ID | Emission Rates (lbs/hr) | | |
| | Polycyclic Organic Matter | Quinone | Toluene |
| | Various | 106-51-4 | 108-88-3 |
| EP01 | 0.310 | 0.056 | 1.015 |
| EP03A | 0.0276 | -- | 0.0013 |
| EP03B | 0.0224 | -- | 0.0015 |
| EP04A | 0.0276 | -- | 0.0013 |
| EP04B | 0.0224 | -- | 0.0015 |

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| STANDARD NO. 8 – POLYCYCLIC ORGANIC MATTER EMISSION RATES (LBS/HR) | | | |
|---|---|---|---|
| **Pollutant** | **CAS Number** | **Emission Point ID** | |
| | | **Production = EP01** | **LOSL(1)** |
| 2-Methylnaphthalene | 91-57-6 | 5.95E-02 | 7.52E-03 |
| Acenaphthene | 83-32-9 | 4.90E-04 | 7.28E-04 |
| Acenaphthylene | 208-96-8 | 7.70E-03 | 4.59E-05 |
| Anthracene | 120-12-7 | 1.09E-03 | 1.99E-04 |
| Benzo(a)anthracene | 56-55-3 | 7.35E-05 | 7.24E-05 |
| Benzo(a)pyrene | 50-32-8 | 3.43E-06 | 2.74E-06 |
| Benzo(b)fluoranthene | 205-99-2 | 3.50E-05 | 9.07E-06 |
| Benzo(e)pyrene | 192-97-2 | 3.85E-05 | 1.77E-05 |
| Benzo (g,h,i) perylene | 191-24-2 | 1.40E-05 | 2.27E-06 |
| Benzo(k)fluoranthene | 207-08-9 | 1.44E-05 | 2.63E-06 |
| Chrysene | 218-01-9 | 6.30E-05 | 3.10E-04 |
| Dibenz (a,h) anthracene | 53-70-3 | -- | 4.42E-07 |
| Fluoranthene | 206-44-0 | 2.14E-04 | 1.93E-04 |
| Fluorene | 86-73-7 | 3.85E-03 | 1.82E-03 |
| Indeno (1,2,3-cd) pyrene | 193-39-5 | 2.45E-06 | 5.61E-07 |
| Naphthalene | 91-20-3 | 2.28E-01 | 3.11E-03 |
| Perylene | 198-55-0 | 3.08E-06 | 5.29E-05 |
| Phenanthrene | 85-01-8 | 8.05E-03 | 2.57E-03 |
| Pyrene | 129-00-0 | 1.05E-03 | 5.70E-04 |
| STACK TOTAL | | 3.10E-01 | 1.72E-02 |
| FACILITY TOTAL | 0.327 | | |
| 1) LOSL = EP03A, EP03B, EP04A and EP04B combined. | | | |

| STANDARD NO. 8 – DE MINIMIS AIR TOXIC EMISSION RATES (LBS/HR) | | | | |
|---|---|---|---|---|
| **Pollutant** | **CAS Number** | **Emission Point ID** | | |
| | | **Production = EP01** | **LOSL(1)** | **TOTAL** |
| Acetaldehyde | 75-07-0 | 4.55E-01 | -- | 4.55E-01 |
| Arsenic | 7440-38-2 | 1.96E-04 | -- | 1.96E-04 |
| Carbon Disulfide | 75-15-0 | -- | 8.72E-04 | 8.72E-04 |
| Cobalt Compounds | 744-048-4 | 9.10E-06 | -- | 9.10E-06 |
| Chromium (+6) Compounds | N/A | 1.58E-04 | -- | 1.58E-04 |

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| STANDARD NO. 8 – DE MINIMIS AIR TOXIC EMISSION RATES (LBS/HR) | | | | |
|---|---|---|---|---|
| **Pollutant** | **CAS Number** | **Emission Point ID** | | |
| | | **Production = EP01** | **LOSL[(1)]** | **TOTAL** |
| Cumene | 98-82-8 | -- | 1.60E-03 | 1.60E-03 |
| Ethyl Chloride (Chloroethane) | 75-00-3 | -- | 1.74E-04 | 1.74E-04 |
| Ethylbenzene | 100-41-4 | 8.40E-02 | 5.70E-03 | 8.97E-02 |
| Hexane | 110-54-3 | 3.22E-01 | 6.45E-03 | 3.28E-01 |
| Hydrochloric Acid | 7647-01-0 | 7.35E-02 | -- | 7.35E-02 |
| Manganese Compounds | N/A | 2.70E-03 | -- | 2.70E-03 |
| Methyl Bromide (Bromomethane) | 74-83-9 | -- | 3.49E-04 | 3.49E-04 |
| Methyl Chloride (Chloromethane) | 74-87-3 | -- | 1.20E-03 | 1.20E-03 |
| Methyl Chloroform | 71-55-6 | 1.68E-02 | -- | 1.68E-02 |
| Methyl Ethyl Ketone (2-Butanone) | 78-93-3 | 7.00E-03 | 2.38E-03 | 9.38E-03 |
| Methylene Chloride | 75-09-2 | -- | 1.15E-05 | 1.15E-05 |
| Naphthalene | 91-20-3 | 2.28E-01 | 3.11E-03 | 2.31E-01 |
| Phenol | 108-95-2 | -- | 1.41E-03 | 1.41E-03 |
| Propionaldehyde | 123-38-6 | 4.55E-02 | -- | 4.55E-02 |
| Selenium Compounds | N/A | 1.23E-04 | -- | 1.23E-04 |
| Styrene | 100-42-5 | -- | 3.37E-04 | 3.37E-04 |
| Tetrachlorinated Dibenzo-p-dioxins (2,3,7,8-TCDD) | 1746-01-6 | 7.35E-11 | -- | 7.35E-11 |
| Tetrachloroethylene (Tetrachloroethene) | 127-18-4 | -- | 1.12E-04 | 1.12E-04 |
| 2,2,4-Trimethylpentane (Isooctane) | 540-84-1 | 1.40E-02 | 3.94E-05 | 1.40E-02 |
| o-Xylene | 95-47-6 | -- | 3.60E-03 | 3.60E-03 |
| Xylene | 1330-20-7 | 7.00E-02 | 1.45E-02 | 8.45E-02 |
| 1) LOSL = EP03A, EP03B, EP04A and EP04B combined. | | | | |